

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457015

Luminaire Tested: **GALN-SA8B-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37796 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

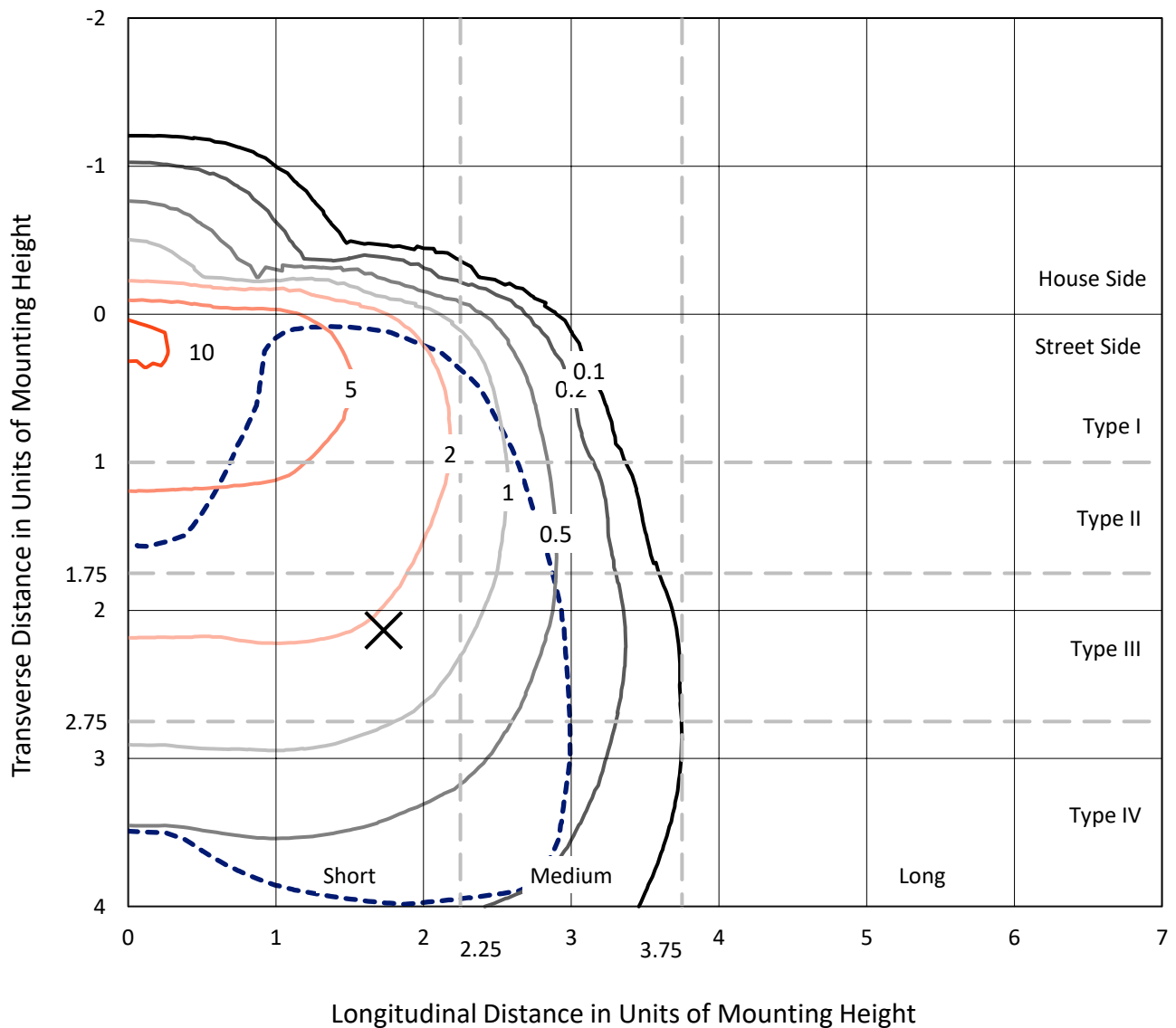




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Iso-Footcandle Lines of Horizontal Illumination

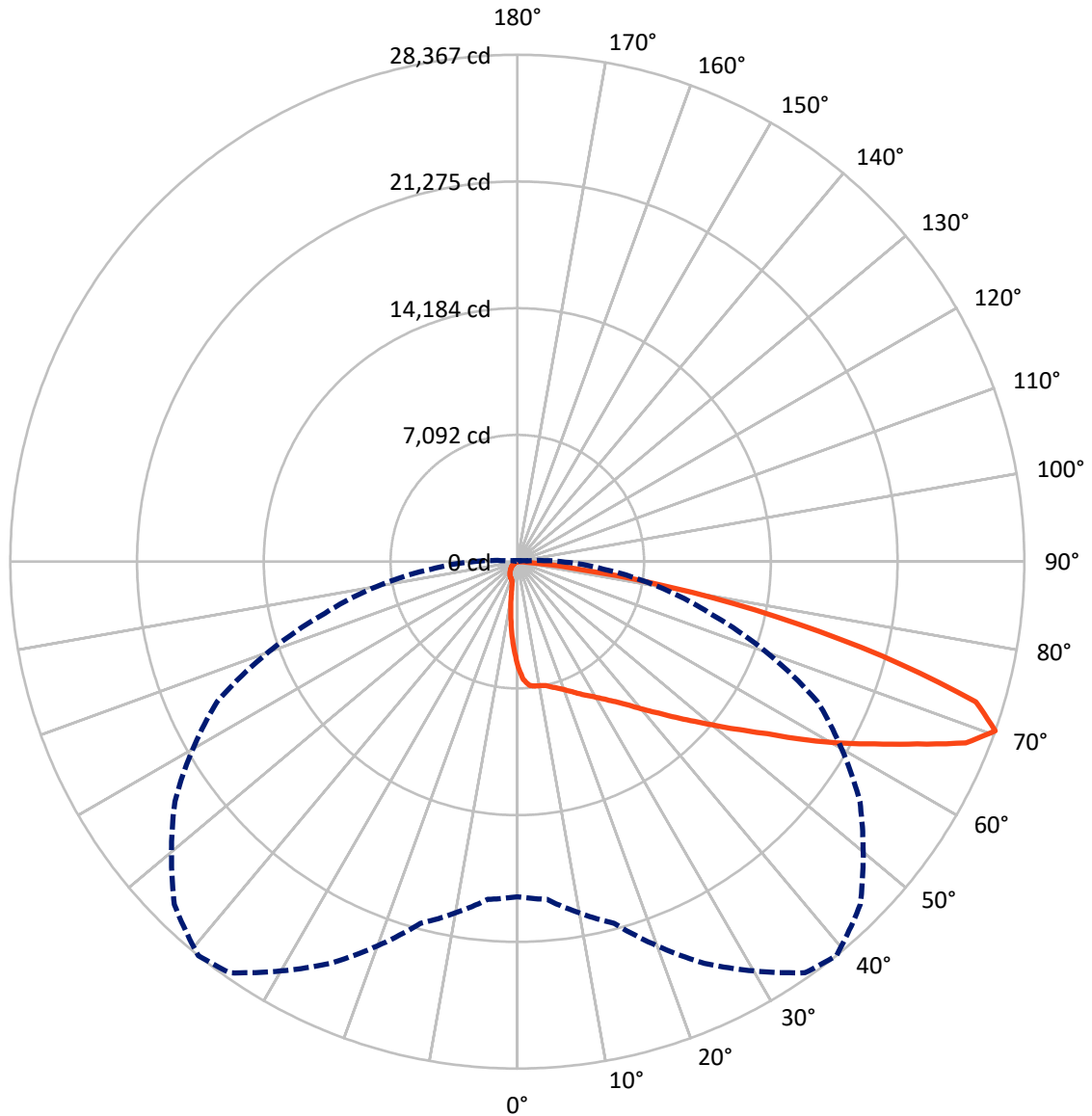
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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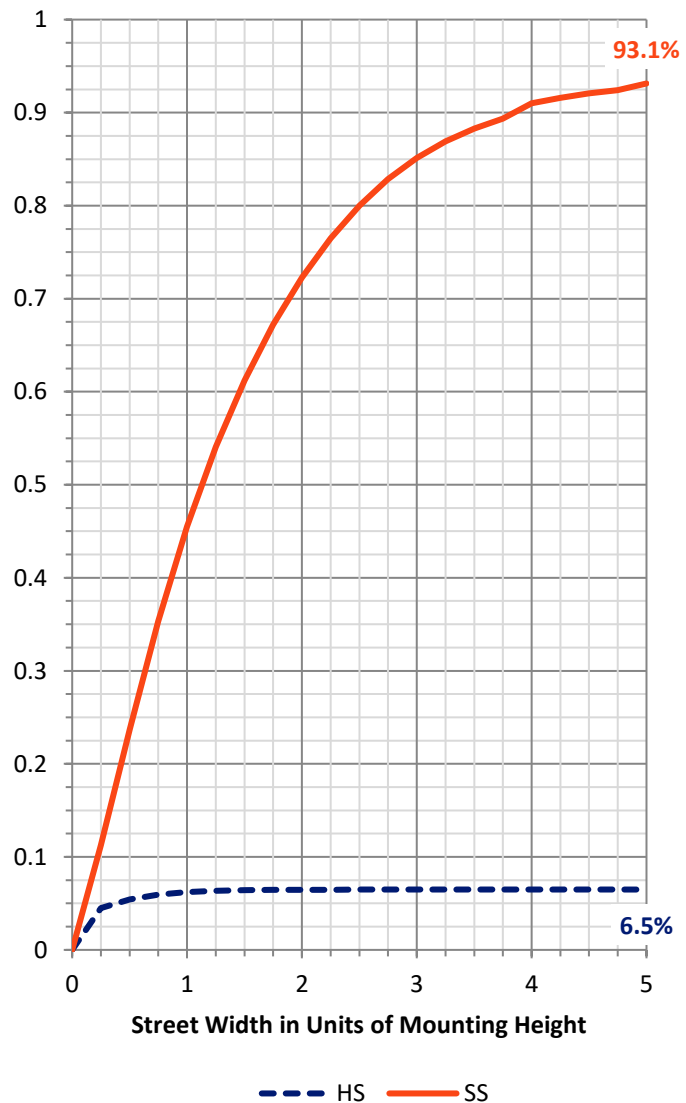
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.5	0.0	2464.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	35331.5	0.0	35331.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	37796.0	0.0	37796.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	1.3
10°-20°	1307.2	3.5
20°-30°	2189.9	5.8
30°-40°	3396.3	9.0
40°-50°	5382.0	14.2
50°-60°	7889.3	20.9
60°-70°	10112.2	26.8
70°-80°	6354.2	16.8
80°-90°	662.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37796.0	100.0
0°-180°	37796.0	100.0



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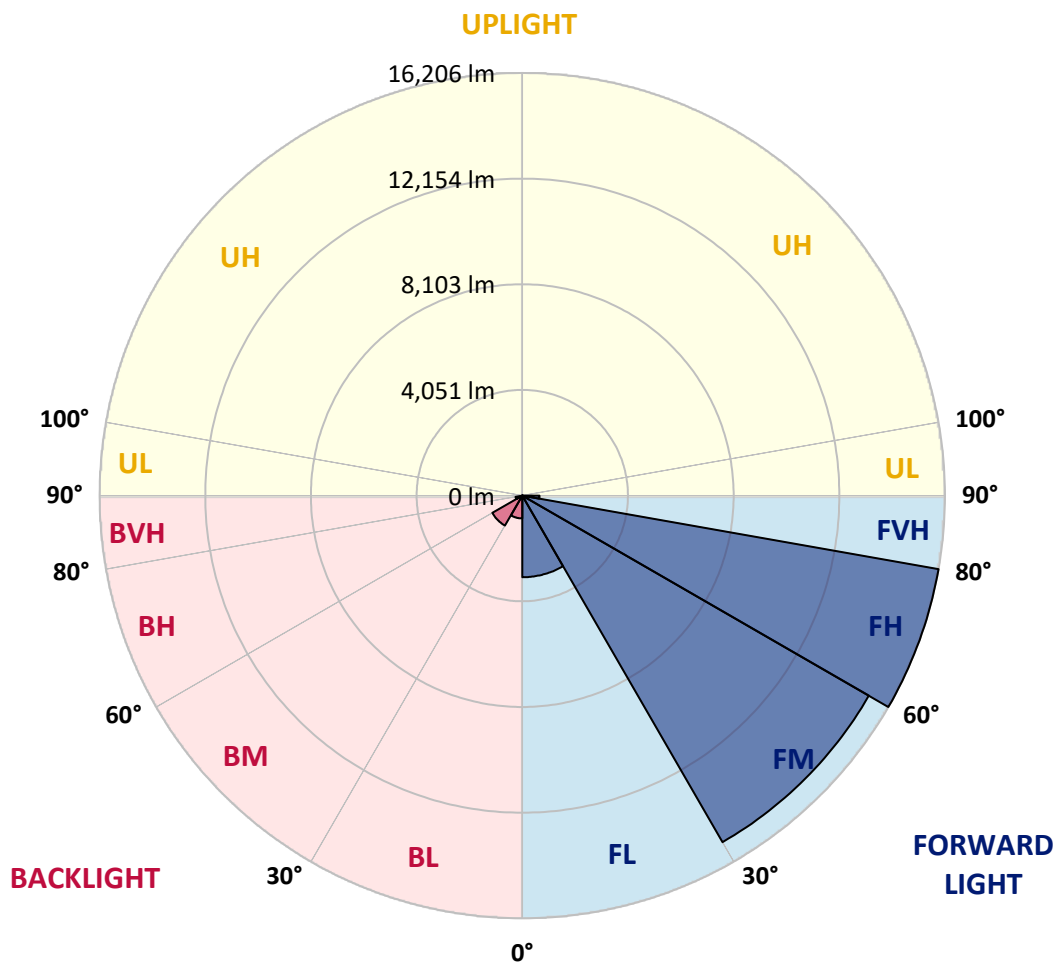
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3127.4	8.3			
FM (30°-60°)	15341.3	40.6			
FH (60°-80°)	16205.7	42.9			G5
FVH (80°-90°)	657.1	1.7			G4/750
BL (0°-30°)	872.7	2.3	B2/1000		
BM (30°-60°)	1326.3	3.5	B2/2500		
BH (60°-80°)	260.6	0.7	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5
2.5°	6814.3	6791.5	6761.0	6725.5	6623.9	6606.1	6545.1	6415.6	6260.7	6133.7	5958.4
5°	7136.9	7149.6	7126.7	7063.3	6989.6	6946.4	6870.2	6669.6	6468.9	6212.4	5925.4
7.5°	7210.6	7236.0	7208.0	7147.1	7076.0	7030.2	6969.3	6796.6	6562.9	6270.8	5877.2
10°	7202.9	7233.4	7215.6	7159.8	7101.3	7058.2	6992.1	6855.0	6667.0	6359.7	5892.4
12.5°	7190.2	7230.9	7228.3	7200.4	7152.1	7119.1	7078.5	6956.6	6781.3	6489.3	5976.2
15°	7154.7	7205.5	7251.2	7274.1	7276.6	7276.6	7225.8	7096.3	6928.6	6659.4	6085.4
17.5°	7169.9	7228.3	7342.6	7408.7	7454.4	7449.3	7396.0	7256.3	7070.9	6834.7	6199.7
20°	7263.9	7342.6	7502.6	7634.7	7680.4	7665.2	7594.1	7431.5	7220.7	6984.5	6311.5
22.5°	7495.0	7566.1	7766.8	7921.7	7954.7	7914.1	7812.5	7591.5	7401.0	7147.1	6446.1
25°	7840.4	7924.3	8109.7	8226.5	8226.5	8203.6	8061.4	7802.3	7604.2	7373.1	6621.3
27.5°	8259.5	8330.6	8513.5	8617.6	8556.7	8490.6	8348.4	8036.0	7845.5	7657.6	6832.1
30°	8683.7	8729.4	8922.4	8968.1	8904.6	8820.8	8668.4	8356.0	8188.4	8043.6	7136.9
32.5°	9085.0	9184.0	9344.0	9333.9	9247.5	9206.9	9067.2	8734.5	8640.5	8625.2	7563.6
35°	9486.2	9562.4	9704.7	9740.2	9664.0	9656.4	9554.8	9308.5	9311.0	9410.0	8229.0
37.5°	9831.7	9900.2	10067.9	10146.6	10161.8	10199.9	10159.3	9996.7	10227.9	10499.6	9110.4
40°	10121.2	10217.7	10431.1	10568.2	10725.7	10865.4	10873.0	10908.5	11373.3	11840.7	10260.9
42.5°	10347.2	10481.9	10791.7	11045.7	11406.4	11584.1	11726.4	11921.9	12704.2	13402.7	11617.2
45°	10641.9	10796.8	11182.8	11581.6	12145.4	12437.5	12635.6	13158.8	14268.7	15221.2	13009.0
47.5°	11129.5	11210.8	11604.5	12186.1	12927.7	13344.2	13730.3	14522.7	15947.6	16800.9	14167.1
50°	11756.8	11810.2	12107.3	12915.0	13875.1	14423.7	15127.2	16059.3	17689.9	18111.5	14822.4
52.5°	12450.2	12468.0	12691.5	13717.6	14936.7	15627.5	16414.9	17565.4	19109.6	19046.1	15256.7
55°	13255.3	13229.9	13420.4	14588.8	16193.9	16983.8	17900.7	19107.1	20341.5	19709.0	15505.6
57.5°	14177.3	14108.7	14294.1	15744.4	17804.2	18749.0	19681.1	20438.0	21296.4	20265.3	15625.0
60°	15142.4	15005.3	15226.2	17042.2	19701.4	20598.0	21372.6	21575.8	22302.2	20707.2	15419.3
62.5°	15912.0	15914.5	16326.0	18423.9	21652.0	22436.8	22848.3	23031.1	23168.3	20610.7	14337.3
65°	17113.3	17154.0	17811.8	20341.5	23909.9	24590.6	24872.5	24278.2	23206.4	19411.9	12711.8
67.5°	18352.8	18482.3	19686.2	22982.9	26518.3	27066.9	26703.7	24519.5	22170.1	16676.5	9638.6
70°	18756.6	18969.9	20953.6	24801.4	28082.8	28367.3	27138.0	23394.3	18533.1	11149.8	4851.1
72.5°	17187.0	17532.4	20224.6	24138.5	27084.7	26838.3	24280.7	19620.1	11782.2	4233.9	1480.7
75°	12120.0	12272.4	16808.6	20024.0	21784.1	21085.6	18469.6	12648.3	4846.0	1188.6	508.0
77.5°	6258.1	6184.5	9996.7	13285.8	15536.1	14812.3	12094.6	6547.7	1836.3	495.3	314.9
80°	3235.7	3289.1	4325.3	6961.7	9483.7	8726.8	6448.6	3035.1	977.8	274.3	241.3
82.5°	1813.4	1701.7	2486.5	3040.2	4434.5	3477.0	2473.8	2148.7	426.7	165.1	228.6
85°	330.2	345.4	1363.9	1643.3	1539.1	977.8	797.5	1435.0	124.5	91.4	160.0
87.5°	5.1	5.1	264.1	472.4	299.7	137.2	251.4	205.7	25.4	35.6	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5	5897.5
2.5°	5869.5	5773.0	5592.7	5414.9	5188.9	5003.5	4879.0	4749.5	4617.4	4627.6	4658.0
5°	5767.9	5600.3	5244.7	4868.8	4508.2	4183.1	3863.1	3576.1	3459.2	3352.6	3357.6
7.5°	5666.3	5430.1	4909.5	4320.2	3774.2	3220.5	2819.2	2489.0	2313.8	2181.7	2143.6
10°	5620.6	5308.2	4602.2	3792.0	3017.3	2412.8	1897.2	1628.0	1419.8	1353.7	1371.5
12.5°	5641.0	5247.3	4325.3	3314.5	2392.5	1681.4	1320.7	1183.6	1137.8	1130.2	1125.1
15°	5679.0	5204.1	4053.6	2786.2	1757.6	1249.6	1109.9	1084.5	1079.4	1074.3	1076.9
17.5°	5729.8	5166.0	3764.0	2290.9	1348.6	1092.1	1051.5	1038.8	1036.2	1036.2	1036.2
20°	5780.6	5122.8	3441.5	1849.0	1125.1	1031.2	1005.8	998.2	995.6	995.6	993.1
22.5°	5839.1	5084.7	3113.8	1452.8	1036.2	988.0	965.1	960.1	957.5	955.0	955.0
25°	5922.9	5036.5	2765.9	1188.6	980.4	947.4	924.5	919.4	916.9	906.7	909.3
27.5°	6034.6	5000.9	2407.8	1026.1	929.6	896.6	881.3	873.7	868.6	861.0	863.5
30°	6187.0	4970.4	2026.8	937.2	871.2	843.2	828.0	822.9	817.8	810.2	810.2
32.5°	6451.2	4983.1	1625.5	866.1	817.8	784.8	769.6	764.5	759.4	751.8	751.8
35°	6847.4	5056.8	1300.4	805.1	754.3	721.3	706.1	706.1	698.5	688.3	685.8
37.5°	7495.0	5244.7	1043.9	746.7	693.4	662.9	645.1	640.0	632.4	617.2	614.6
40°	8259.5	5536.8	878.8	688.3	637.5	607.0	591.8	576.5	556.2	541.0	538.4
42.5°	9219.6	5836.5	761.9	629.9	584.2	556.2	538.4	513.0	482.6	462.2	459.7
45°	10220.3	6110.8	683.2	576.5	533.4	510.5	490.2	449.5	411.5	386.1	383.5
47.5°	10967.0	6161.6	619.7	525.7	490.2	467.3	439.4	388.6	337.8	314.9	307.3
50°	11320.0	5915.3	553.7	474.9	447.0	421.6	386.1	327.6	271.8	243.8	238.7
52.5°	11444.4	5488.6	500.3	429.2	403.8	373.4	330.2	264.1	213.3	185.4	182.9
55°	11393.7	4950.1	452.1	386.1	353.0	317.5	274.3	210.8	157.5	134.6	129.5
57.5°	11127.0	4264.4	403.8	342.9	302.2	266.7	218.4	157.5	106.7	86.4	83.8
60°	10408.2	3329.7	355.6	294.6	256.5	218.4	172.7	111.8	66.0	48.3	48.3
62.5°	9194.2	2471.2	309.9	246.4	215.9	175.2	121.9	71.1	35.6	25.4	22.9
65°	7683.0	1823.6	259.1	208.3	180.3	137.2	86.4	43.2	17.8	7.6	5.1
67.5°	5361.6	1125.1	215.9	170.2	147.3	99.1	53.3	17.8	7.6	0.0	0.0
70°	2435.7	535.9	165.1	129.5	111.8	71.1	27.9	10.2	5.1	0.0	0.0
72.5°	756.9	281.9	116.8	94.0	76.2	45.7	15.2	7.6	5.1	0.0	0.0
75°	350.5	180.3	73.7	50.8	43.2	22.9	10.2	5.1	2.5	0.0	0.0
77.5°	261.6	139.7	43.2	27.9	22.9	15.2	7.6	5.1	2.5	0.0	0.0
80°	228.6	71.1	25.4	17.8	12.7	10.2	5.1	2.5	0.0	0.0	0.0
82.5°	205.7	35.6	15.2	10.2	7.6	5.1	2.5	2.5	0.0	0.0	0.0
85°	111.8	20.3	10.2	7.6	5.1	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	20.3	10.2	7.6	5.1	5.1	2.5	2.5	2.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)